

Human Interleukin-12/-23 (p40)
Monoclonal antibody
FOR NEUTRALIZATION

General

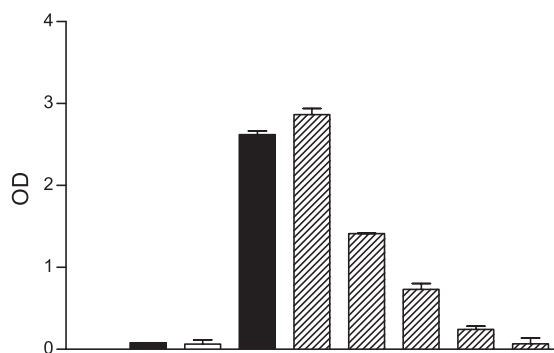
Antibody:	MT3279H
Product code:	3450-0N-500
Quantity:	500 µg
Immunogen:	Recombinant human IL-23
Isotype:	Mouse IgG2b
Specificity:	Native and recombinant p40 subunit of human IL-12 and IL-23
Concentration:	1 mg/ml
Buffer:	Supplied in sterile filtered (0.2 µm) PBS. Contains no preservatives. The endotoxin content in the product is below 10 EU/mg.
Purification:	Purified from <i>in vitro</i> cultures by protein G affinity chromatography.
Storage:	Store product at 4-8°C or frozen at -20°C or below. Avoid repeated freezing/thawing.
Applications:	Neutralization of human IL-12 and IL-23 bioactivity. It is recommended to establish the optimal antibody concentration for the assay system used.

Neutralization

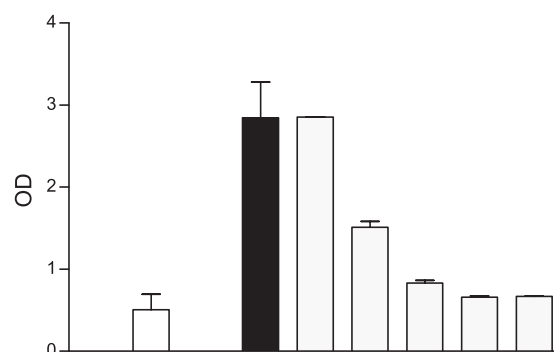
Neutralization assay: Neutralization of human IL-12 and human IL-23 induced IFN- γ production (see graphs). To determine the neutralizing capacity and ND₅₀ on IL-12 induced IFN- γ production, mixtures of various concentrations of mAb MT3279H, human recombinant IL-12 (10 ng/ml) and recombinant IL-1 β (50 ng/ml) were added to human PBMC. For determination of the neutralizing capacity and ND₅₀ on IL-23 induced IFN- γ production, mixtures of various concentrations of mAb MT3279H, human recombinant IL-23 (10 ng/ml) and recombinant IL-18 (50 ng/ml) were added to human PBMC. Following overnight incubation, cell supernatants were quantified in IFN- γ ELISA.

Neutralization dose 50 (ND50): MT3279H neutralized the effect of IL-12 and IL-23 at a ND₅₀ value of 0.2-0.5 μ g/ml when 10 ng/ml of recombinant human IL-12 or IL-23 was present.

ND₅₀ is defined as the concentration of antibody that results in 50% inhibition of the biological response under the experimental conditions specified.



IL-12 (10 ng/ml)	-	+	-	+	+	+	+	+	+
IL-1 β (50 ng/ml)	-	-	+	+	+	+	+	+	+
MT3279H (μ g/ml)	-	-	-	-	0.01	0.1	1	10	100



IL-23 (10 ng/ml)	-	-	+	+	+	+	+	+	+
IL-18 (50 ng/ml)	-	+	-	+	+	+	+	+	+
MT3279H (μ g/ml)	-	-	-	-	0.01	0.1	1	10	100

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